

What is claimed is:

1. An integrated induction battery charge apparatus having a charge end to generate an induction magnetic field to charge an induction charge battery, comprising:
 - a power supply to provide electric energy;
 - 5 a detection module located on the charge end to detect the charge battery and to generate a start signal when the charge battery is detected;
 - an activation module connected to the detection module for receiving the start signal and turning on a power supply switch; and
 - an induction module connected to the activation module for transforming the
 - 10 electric energy provided by the power supply to magnetic energy through electromagnetic induction.
2. The integrated induction battery charge apparatus of claim 1, wherein the induction module includes an induction coil.
3. The integrated induction battery charge apparatus of claim 1, wherein the detection
- 15 module detects through electromagnetic induction.
4. The integrated induction battery charge apparatus of claim 1, wherein the detection module detects through piezoelectric induction.
5. The integrated induction battery charge apparatus of claim 1, wherein the activation module includes metal oxide semiconductor switches.
- 20 6. An integrated induction charge battery, comprising:
 - a charge battery;
 - an induction module integrated with the charge battery for transforming magnetic energy transferred from a charge end to electric energy through electromagnetic induction to charge the charge battery; and

a rectification module connected to the induction module for transforming an AC voltage generated by the induction to a DC voltage.

7. The battery of claim 6, wherein the battery further includes a filter module which is connected to the rectification module for improving the waveform of the DC voltage output from the rectification module.
8. The battery of claim 7, wherein the filter module includes at least one inductor and at least one capacitor coupling in parallel.
9. The battery of claim 6, wherein the induction module includes an induction coil.
10. The battery of claim 6, wherein the induction module includes an induction coil which has a desired number of coil rings according to voltage specifications of the battery.
11. The battery of claim 6, wherein the rectification module is a bridge rectifier.
12. The battery of claim 6, wherein the battery is a battery of a portable information process apparatus.
13. The battery of claim 6, wherein the battery is a battery of a mobile communication apparatus.